

## Principal : Profile

1. Name (in Block Letters) : SANCHETI MILANKUMAR MULCHAND
2. Father's/Husband's Name : MULCHAND SOBHAGCHAND SANCHETI
3. Department : MATHEMATICS
4. Current Designation : ASSOCIATE PROFESSOR
5. Name of the institution where : R. A. Arts, Shri M. K. Commerce and Shri S.  
R.working at present Rathi Science Mahavidyalaya,  
Washim
6. Date and Place of Birth : Date: 06-07-1962: Place: Udgir
7. Sex : Male
8. Marital status : Married
9. Nationality : Indian
10. Address for correspondence : DR. M. M. SANCHETI  
SAVITRI 18, IUDP COLONY PHASE II -,  
Washim, Dist: Washim. Pin: 444505 (Maharashtra)
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12. Email : msancheti7@gmail.com

### 13. Academic Qualifications (Matric onwards till post graduation):

Examinations	Name of the Board/ University	Year of Passing	Percentage Marks obtained	Division/Class	Subject/s
SSC	Nagpur. Board	1978	73	I	Science, Mathematics, English, Marathi
HSSC	Nagpur Board	1980	63	I	Science, Mathematics, English, Marathi

B.Sc.	Nagpur University	1983	53	II	Chemistry, Physics, Mathematics
M.Sc.	Amravati University	1986	62	I	Mathematics
Ph. D.	S. G. B. A.U. Amravati	2013			Relativity

**14. Research Degree(s) : Ph.D February, 2013**

**15. Title of the Thesis : STUDY OF SOME PHYSICAL SPACE TIMES IN BIMETRIC THEORY OF RELATIVITY AND SCALAR TENSOR THEORIES.**

**16. Period of Teaching Experience : P.G. Classes (in years) : 10  
: U.G. Classes (in years) : 27**

**17. Research Experience : 10 Yrs.**

**18. Fields of Specialization under the Subject/Discipline : General Relativity**

**19. Number of Research Papers Published a. National /International : 25**

**20. Number of Research Papers presented in Conf. /Seminars/Symposia : 32**

**21. Academic Staff College Orientation / Refresher Course attended:**

Name of the Course/ Summer School	Place	Duration	Sponsoring Agency
Refresher	ASC,A.M.U. ALIGARH	7-11-1994to 3-12-1994	UGC
Refresher	ASC,N.M.U.JALGAON	24-2-1997 to 23-3-1997	UGC
Refresher	ASC,S.G.B.A.U.,AMRAVATI	2-6-2001 to 29-6-2001	UGC
Refresher	ASC N.M.U. JALGAON	10-3-2004 to 30-3-2004	UGC

**22. Responsibilities other than teaching/learning/Evaluation:**

Working as Co-ordinator on Various Internal Committees of the college and extra ordinary duties performed at college such as

**Extension, Co-curricular and Field Based Activities:** These activities were performed to encourage students so as to achieve their overall development. In addition to formal education that we give to students, extra-curricular activities taken were Quiz Competition, Mathematical Rangoli, Mathematical Models Exhibition, Mathematical Charts Exhibition, Seminar Competitions (U.G. and P.G.) were organized through forming Mathematical Society at College and University level.

### **23. TITLES OF RESEARCH PUBLICATIONS**

1. S. D. KATORE, R. S. RANE, K. S. WANKHADE AND **M.M. SANCHETI** (2010): *BIANCHI TYPE-V DOMAIN WALLS COSMOLOGICAL MODELS WITH STRANGE QUARK MATTER IN BRANS DICKE THEORY OF GRAVITATION*; VIDARBHA JOURNAL OF SCIENCE, VOL. 5 NO. 3-4 (2010).
2. S.D. KATORE · K.S. ADHAV · A.Y. SHAIKH · **M.M. SANCHETI** (2011): *PLANE SYMMETRIC COSMOLOGICAL MODELS WITH PERFECT FLUID AND DARK ENERGY*, ASTROPHYS; SPACE SCIENCE JOURNAL (2011) 333: 333–341; DOI, 10.1007/S10509-011-0622-0.
3. S.D. KATORE, K.S. ADHAV, **M.M. SANCHETI** (2011): *DYNAMICS OF KANTOWSKI-SACHS UNIVERSE WITH MAGNETIZED ANISOTROPIC DARK ENERGY*, ASTROPHYS SPACE SCIENCE JOURNAL, DOI 10.1007/S10509-011-0826-3.
4. S. D. KATORE\*, K.S.ADHAV, **M.M. SANCHETI** (2011): *LRS BIANCHI TYPE I DOMAIN WALLS IN A SAEZ-BALLESTER SCALAR-TENSOR THEORY OF GRAVITATION*, PRESPACETIME JOURNAL| JANUARY 2011 | VOL. 2 | ISSUE 1 | PP. 042-051
5. S. D. KATORE, **M.M. SANCHETI** & N.K.SARKATE (2011): *FRW COSMOLOGICAL SOLUTIONS WITH ZERO-MASS SCALAR FIELD ATTACHED TO BULK VISCOUS FLUID IN SAEZ-BALLESTER THEORY OF GRAVITATION* , PRESPACETIME JOURNAL| NOVEMBER 2011, VOL. 2 , ISSUE 11, PP. 1860-1871
6. S D KATORE, R S RANE, **M.M SANCHETI**, K S WANKHADE (2011): *FIVE DIMENSIONAL COSMOLOGICAL MODEL FOR PERFECT FLUID DISTRIBUTION IN LYRA GEOMETRY* JOURNAL OF VECTORIAL RELATIVITY, JVR 6 (2011) 2 25-35.
7. S. D. KATORE, A. Y. SHAIKH, **M.M. SANCHETI**, N.K.SARKATE (2011): *BIANCHI TYPE-III COSMIC STRINGS AND DOMAIN WALLS COSMOLOGICAL MODELS IN SELF-CREATION COSMOLOGY*, PRESPACETIME JOURNAL, MARCH 2011, VOL. 2, ISSUE 3, PP. 447-461.

8. S.D. KATORE, **M.M. SANCHETI** (2011): *BIANCHI TYPE VIO MAGNETIZED ANISOTROPIC DARK ENERGY MODELS WITH CONSTANT DECELERATION PARAMETER*, INTERNATIONAL JOURNAL OF THEORITICAL PHYSICS (2011) 50:2477–2485, DOI 10.1007/S10773-011-0736-8.
9. S. D. KATORE, A. Y. SHAIKH, **M. M. SANCHETI**, S. A. BHASKAR (2011): *PLANE SYMMETRIC UNIVERSE WITH WET DARK FLUID IN GENERAL RELATIVITY* PRESPACETIME JOURNAL| JANUARY 2011 | VOL. 2 | ISSUE 1 | PP. 016-032
10. **M.M.SANCHETI**, S.P.HATKAR (2012): *ACCELERATING BIANCHI TYPE – II, VIII AND IX COSMOLOGICAL MODELS IN  $F(R)$  GRAVITY*, PROCEEDINGS OF INTERNATIONAL CONFERENCE OF ‘BENCHMARKS IN ENGINEERING SCIENCE AND TECHNOLOGY’(IC-BEST) 7-8 SEPTEMBER 2012.
11. S. D. KATORE, A. Y. SHAIKH AND **M. M. SANCHETI** (2012): *BIANCHI TYPE III DARK ENERGY COSMOLOGICAL MODEL IN SCALAR TENSOR THEORY OF GRAVITATION*, INTERNATIONAL JOURNAL OF MATHEMATICAL ARCHIVE-3(3), 2012, PAGE: 1297-1304
12. SHIVDAS. D. KATORE, A. Y. SHAIKH, **M. M. SANCHETI** and J. L. PAWADE (2012): *EINSTEIN ROSEN BULK VISCOUS COSMOLOGICAL SOLUTIONS WITH ZERO MASS SCALAR FIELD IN LYRA GEOMETRY*, PRESPACETIME JOURNAL| JANUARY 2012, VOL. 3, ISSUE 1, PP. 83-89
13. S. D. KATORE, A. Y. SHAIKH, **M. M. SANCHETI** (2012): *MAGNETIZED DARK ENERGY MODELS IN SCALAR TENSOR THEORY OF GRAVITATION*; INTERNATIONAL JOURNAL OF BASIC AND APPLIED RESEARCH, SPECIAL ISSUE (PP. 275-282) ISSN 2249-3352.
14. S.D. KATORE, **M.M. SANCHETI**, S.P. HATKAR AND S. BHASKAR (2013): *DECELERATING AND ACCELERATING BIANCHI TYPE-VIO VACCUM UNIVERSE IN GRAVITY) IN  $F(R)$  GRAVITY*, INTERNATIONAL JOURNAL OF MATHEMATICAL ARCHIVE-4(9), 2013, 52-60 AVAILABLE ONLINE THROUGH WWW.IJMA.INFO ISSN 2229 – 5046.
15. S.D. KATORE, **M.M. SANCHETI**, S.A. BHASKAR (2013): *KALUZA–KLEIN COSMOLOGICAL MODELS FOR PERFECT FLUID AND DARK ENERGY*, BULGERIAN JOURNAL OF PHYSICS. 40 (2013) 17–32

16. **M. M. SANCHETI** and S. P. HATKAR (2013): *BIANCHI TYPE VIII COSMOLOGICAL MODEL WITH PERFECT FLUID IN THEORY OF  $F(R, T)$  GRAVITATION*, INTERNATIONAL JOURNAL OF MATHEMATICAL ARCHIVE-4(11), 2013, 297-301
17. S.D. KATORE, **M.M. SANCHETI**, S.P. HATKAR, AND N.K. SARKATE (2014): *HYPERSURFACE HOMOGENEOUS SPACE TIME WITH ANISOTROPIC DARK ENERGY IN BRANS DICKE THEORY OF GRAVITATION*, COMMUNICATION THEORITICAL PHYSICS 62 (2014) 768{774 VOL. 62, NO. 5, NOVEMBER 1, 2014.
18. **M. M. SANCHETI**, S. D. KATORE AND S. P. HATKAR (2013): *ANISOTROPIC HOMOGENEOUS-HYPERSURFACE WITH BULK VISCOSITY IN  $F(R)$  GRAVITY*, INTERNATIONAL JOURNAL OF MATHEMATICAL SCIENCE AND ENGGINEERING APPLICATIONS (IJMSEA), ISSN 0973-9424, VOL. 7 NO. IV (JULY, 2013), PP. 391-402.
19. S. D. KATORE, **M. M. SANCHETI**, AND N. K. SARKATE (2014): *ACCELERATING MAGNETIZED ANISOTROPIC DARK ENERGY COSMOLOGICAL MODELS IN SCALAR-TENSOR THEORY OF GRAVITATION*, INTERNATIONAL JOURNAL OF MATHEMATICAL SCIENCE AND ENGGINEERING APPLICATIONS (IJMSEA), ISSN 0973-9424, VOL. 8 NO. V (SEPTEMBER, 2014), PP. 9-25.
20. K. S.WANKHADE, **M. M. SANCHETI** (2014): *BIANCHI TYPE II, VIII & IX COSMOLOGICAL MODEL WITH MAGNETIZED ANISOTROPIC DARK ENERGY IN BRANS-DICKE THEORY OF GRAVITATION*, INTERNATIONAL JOURNAL THEORITICAL PHYSICS (2014) 53:2836–2845, DOI 10.1007/S10773-014-2081-1
21. S D KATORE, **M M SANCHETI** AND S P HATKAR (2014): *QUARK MATTER COUPLED TO DOMAIN WALLS IN BIANCHI TYPES II, VIII AND IX UNIVERSES*, PRAMANA JOURNAL OF PHYSICS OCTOBER 2014 INDIAN ACADEMY OF SCIENCES VOL. 83, NO. 4., PP. 619–630
22. **M.M.SANCHETI** ,S.P.HATKAR (2014): *BIANCHI TYPE II UNIVERSE WITH BINARY MIXTURE OF PERFECT FLUID AND DARK ENERGY IN  $F (R,T)$  THEORY OF GRAVITATION*, MULTIOLOGIC IN SCIENCE, VOL II, ISSUE VII JAN 2014 ISSN 2277-7601
23. S. D. KATORE, **M. M. SANCHETI**, AND N. K. SARKATE (2014): *KALUZA-KLEIN ANISOTROPIC MAGNETIZED DARK ENERGY COSMOLOGICAL MODEL IN BRANS-DICKE THEORY OF GRAVITATION*, ASTROPHYSICS, VOL. 57, NO. 3, SEPTEMBER, 2014
24. S. D. KATORE, **M. M. SANCHETI**, S. P. HATKAR (2014): *MAGNETIZED ANISOTROPIC DARK ENERGY COSMOLOGICAL MODELS IN SCALE COVARIANT THEORY OF GRAVITATION*, INTERNATIONAL JOURNAL OF MODERN PHYSICS D;

VOL. 23, NO. 7 (2014) 1450065 (16 PAGES) WORLD SCIENTIFIC PUBLISHING COMPANY DOI: 10.1142/S0218271814500655

25. M. M. SANCHETI (2015): *STIFF FLUID, STRING CLOUD AND VISCOUS FLUID IN F (RT) THEORY OF GRAVITATION*, MULTILOGIC IN SCIENCE VOL. IV, ISSUE XI. JAN. 2015.

### 23. OTHER RESEARCH CONTRIBUTION

#### A. Participation in Conferences/Symposia/Workshops:

Sr. No.	Date	Participations and Nature of Activity
	03/12/1994	Refresher Course AMU, Aligarh (Participation)
	23/03/1997	Refresher Course NMU, Jalgaon. (Participation)
	25/06/2001	Refresher Course SGBAU (Participation)
	14/02/2004	Seminar Comp. Darva. Subject Expert
	30/03/2004	Refresher Course NMU, Jalgaon. (Participation)
	14/01/2005	International Conference SGBAU, Amravati (Participation).
	24/07/2005	Workshop on Syllabus (Bhartiya MV, Amravati). (Participation).
	18/12/2007	National Conference, BNCOE, Pusad. (Participation).
	28/02/2010	National Conf. MMMV, Darva, (Participation)
	12/10/2010	National Conf. NCOE and T, Yavatmal. (Presentation)
	12/10/2010	National Conf. NCOE and T, Yavatmal. (Chaired the Session)
	16/06/2011	International Conf. Deharadun (Presentation)
	16/06/2011	International Conf. Deharadun (Presentation)
	25/09/2011	Workshop on PBAS/API System, SSSW College, Washim. (Participation)
	11/10/2011	Workshop on Vivekanand Scientific Approach, SGBAU, Amravati. Participation.
	15/10/2011	National Conf. IBS-2011, (Treasurer, Organizing Comm. Mem.)
	29/01/2012	National Seminar, Sindhu MV. Nagpur, (Presentation).
	08/09/2012	International Conf. BDCOE, Sevagram. (Presentation).
	27/10/2012	National Conf. National Conf. MMMV, Darva, (Presentation)
	31/12/2012	International Conf. SSSC, Nagpur (Presentation)
	19/01/2013	National Conf. (Murtijapur), Subject Organizing Comm. Member.
	19/01/2013	National Conf. (Murtijapur), (Presentation).
	19/01/2013	National Conf. (Murtijapur), (Presentation).
	19/01/2013	National Conf. (Murtijapur), (Presentation).
	19/01/2013	National Conf. (Murtijapur), (Presentation).
	19/01/2013	National Conf. (Murtijapur), (Presentation).
	25/03/2013	IQAC Awareness Workshop, SGBAU, Amravati.
	30/04/2013	National Conf. (RAMSE-2013) SGMCOE, Shegaon (Presentation).
	07/06/2013	National Conf. MIT, Pune. (Chaired the Session)
	07/06/2013	National Conf. MIT, Pune. (Chaired the Session)
	21/09/2013	National Conf. GSGMV, Umardhed. (Presentation).
	21/09/2013	National Conf. GSGMV, Umardhed. (Presentation).
	21/09/2013	National Conf. GSGMV, Umardhed. ((Presentation).

	21/09/2013	National Conf. GSGMV, Umarkhed. (Presentation).
	21/09/2013	National Conf. GSGMV, Umarkhed. (Chaired the Session).
	29/10/2013	National Conf. ACS MV, Koradi. (Presentation)
	29/10/2013	National Conf. ACS MV, Koradi. (Presentation)
	17/12/2013	State Level Con. MDS MV, Jamner. (Presentation).
	17/12/2013	State Level Con. MDS MV, Jamner. (Presentation).
	17/12/2013	State Level Con. MDS MV, Jamner. (Presentation).
	17/12/2013	State Level Con. MDS MV, Jamner. (Presentation).
	23/01/2014	International Conf. RSTMU, Nagpur. (Presentation)
	06/06/2014	National Conf. MIT, Pune. (Presentation).
	06/06/2014	National Conf. MIT, Pune. (Chaired the Session).
	14/08/2014	Controller of Examination-MTS.
	21/03/2015	International Conference, Patiyala, (Presentation of Research Paper)
	21/03/2015	International Conference, Patiyala. (Chaired the Session)

### **B. Chair the Sessions during Conference/Symposia/Workshops:**

In spite of attending conferences/Symposia and presentations of research papers and articles certain sessions in such events were conducted as a chair person. Through this activity researchers who are new to this field of research were encouraged to be abreast with new trends in mathematical research.

Sr. No.	Title of Lecture / Academic Session
1	National Conference on Recent Trends in Engineering Science NCRTES 2010 Organized by Dr. BN College of Engineering and Technology, Yeotmal.
2	National Conference on Eng. Applications of Mathematics NCEAM 2013 Organized by MIT Academy of Engineering, Alandi
3	National Conference on Recent Trends in Mathematics NCEAM 2013 Organized by GSGawande MV. Umarkhed
4	National Conference on Eng. Applications of Mathematics NCEAM 2014 Organized by MIT Academy of Engineering, Alandi
5	National Conference on Mathematical Sciences (Subject Organizing Committee) NC MS 2013 Organized by R G Rathod ART's and Science College, Murtijapur.
6	International Conference on Advances in Mathematical Sciences – 2015 ICAMS-2015 Organized by GSSDGS, Khalsha College, Patiala and International Multidisciplinary Research Foundation

### **C: Conference / Seminar Presentation**

1. Bianchi Type I, Magnetized Barotropic Perfect Fluid Cosmological Model In Scalar Tensor Theory Of Gravitation. NCRTES 2010 -11-12 Oct. 2010, Dr. Bhausaheb Nandurkar College Of Engi. & Technology, Yavatmal.

2. FRW Cosmological Solutions With Zero Mass Scalar Field Attached To Bulk Viscous Fluid In Saez - Ballester Theory Of Gravitation. EIPST 2011, 14-16 Jun.2011. University of Petroleum & Energy Studies, Dehradun.
3. Dynamics of Kantowski-Sachs universe with magnetized anisotropic Dark Energy EIPST 2011, 14-16 Jun.2011 University Of Petroleum & Energy Studies, Dehradun.
4. Bianchi Type III Cosmological Dark Energy Model In Theory of Gravitation. PDFFT 2012, 28-29 Jan.2012. Sindhu Mahavidyalaya, Nagpur.
5. Accelerating Bianchi Type II, VIII and XI Cosmological Model in F(R) Gravity. IC-BEST 2012, 7-8 Sep.2012 Bapurao Deshmukh College of Engineering, Sevagram.
6. Magnetised Dark Energy Model In Scalar Tensor Theory Of Gravitation. NCRTP 2012, Mungasaji Maharaj Mahavidyalaya, Darwaha. 26-27 Oct.2012
7. Anisotropic Homogeneous-Hypersurface with Bulk Viscous In F (R) Gravity. ICMS 2012, 28-31 Dec.2012, S.S.E.S. Science College, Nagpur
8. Bianchi Type II VIII IX String Cosmological Model In F ( R) Gravity. NCMS-2013, 18-19 Jan.2013. Arts, Science College, Murtijapur
9. Bianchi Type III Magnetized Anisotropic Dark Energy Cosmological Models In B.D.T. Of Gravitation. NCMS-2013. 18-19 Jan.2013. Arts, Science College, Murtijapur.
10. Hypersurface Homogeneous Space Time With Anisotropic Dark Energy In Brans Dicke Theory Of Gravitation. NCMS-2013, 18-19 Jan.2013, Arts, Science College, Murtijapur.
11. Kaluza Klein Universe With Magnetized Anisotropic Dark Energy In Lyra Manifold. NCMS-2013 , 18-19 Jan.2013, Arts, Science College, Murtijapur.
12. Magnetized Variable Modified Chaplygin Gas In, NCMS-2013 , Arts, Science College, Murtijapur.
13. Bianchi Type II VIII & IX Anisotropic Dark Energy Cosmological Model In Saez Ballester Theory Of Gravitation. NCMS-2013 18-19 Jan.2013. Arts, Science College, Murtijapur.
14. Decelerating And Accelerating Bianchi Type-VI Vacuum, Universe In F ( R ) Gravity. RAMASE 2013, 29-30 Apr.2013, S.S.G.M. College Of Engineering, Shegaon.
15. Dynamics of Bianchi Type II, VIII and IX universe with Quark Matter Coupled to Domain Wall in G. R. EAM2013, 6-7 Jun.2013. MIT Academy Of Engineering, Alandi (D), Pune
16. Binary Mixture Of Perfect fluid And Dark Energy In Bianchi Type IX Universe. NCRTM 2013 , Gopikabai S. Gawande Mahavidyalaya, Umardhed.



17. Magnetised Anisotropic Dark Energy In Bianchi VIII Universe. NCR TMS 2013, 29 Oct.2013. Arts,Commerce & Science College,Koradi.
18. Two Fluid Cosmological Model In Self Creation Theory. NCR TMS 2013, 29 Oct.2013. Arts,Commerce & Science College,Koradi.
19. Bianchi Type II Cosmology modal with Brans Dicke Theory in  $F(R)$  Theory Of Gravitation, NCR TMS 2013,Arts,Commerce & Science College,Koradi. 29 Oct.2013.
20. Magnetized Anisotropic Dark Energy In B.D.T. Of Gravitation, NCR TMS 2013, Arts,Commerce & Science College,Koradi. 29 Oct.2013.
21. Bianchi Type II VIII IX Magnetized Anisotropic Dark Energy cosmological modal in Scalar Tensor Theory Of Gravitation, NCR TMS 2013, Arts,Commerce & Science College,Koradi. 29 Oct.2013.
22. Bianchi Type VIII Universe With Binary Mixture Of Perfect Fluid And Dark Energy In  $F(R,T)$  Gravity, NCR TM 2013, Gopikabai S.Gawande Mahavidyalaya, ,21Sep.2013, Umarked.
23. Anisotropic Dark Energy Cosmological Models In Brans-Dicke Theory of Gravitation. NCR TM 2013 Gopikabai S.Gawande Mahavidyalaya, ,21Sep.2013. Umarked.
24. Bianchi Type III Anisotropic Dark Energy Cosmological Models In Saez Balleater Theories Of Gravitation.NCR TM 2013 ,21Sep. 2013, Gopikabai S.Gawande Mahavidyalaya,Umarked.
25. Bianchi Type II Universe with Binary Mixture Of Perfect Fluid And Dark Energy In  $F(R,T)$  Theory Of Gravitation, 21Sep.2013, Gopikabai S.Gawande Mahavidyalaya, Umarked.
26. Bianchi Type II Cosmological Model with Magnetized Anisotropic Dark Energy In Scale Covariant Theory Of Gravitation, RTMA 2013, 16-17 Dec.,2013, G.D.M.Arts,S.K.R.N.Comm.& M.D.Sci.College, Jamner.
27. Homogeneous Hypersurface Cosmological Model In modified theory of gravitation, RTMA 2013, G.D.M.Arts,S.K.R.N.Comm.& M.D.Sci.College, Jamner.
28. Magnetized Anisotropic Dark Energy in Bianch type VIII Universe, RTMA 2013, 16-17 Dec 2013 , G.D.M.Arts,S.K.R.N.Comm.& M.D.Sci.College, Jamner.
29. Anisotropic Cosmological Models with Bulk-Viscosity in  $F(R)$  Theory, ICRAM 2014, 20-23 Jan 2014 RTM University, Nagpur.
30. Magnetized Anisotropic Dark Energy Cosmological Model in Scale Covariant Theory of Gravitation, RTMA 2013, 16-17 Dec.,2013 G.D.M.Arts,S.K.R.N.Comm.& M.D.Sci.College,Jamner.

31. Accelerating Magnetized Anisotropic Dark Energy Cosmological Model in Scalar Tensor Theory of Gravitation. 2-6 June, 2014. MIT Academy Of Engineering, Alandi (D),Pune.
32. Stability of Kaluzaklein Cosmological Model in  $f(R, T)$  Theory of Gravitation. 19-21 March, 2015, GSSDGS Khalsa College, Patiyala, and International Multidisciplinary Research Foundation.